

# MDI SOA Task Force

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InterOP - VLab

(by Ricardo Jardim Goncalves)

## Coordination of the task force

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- Ricardo Goncalves
  - Carlos Agostinho
- Arne Berre
  - Cyril Carrez

InterOP - VLab

## Objectives of task force

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- Discussion among members for best practices
  - As a basis for training, new challenges and future proj proposals
- Facilitate the implementation of concept
- Keep updated the SoA of MDI SOA

## MDI and SOA – Best practices

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- Shared/Federated library of Interoperability references models and frameworks, (IDEAS, ATHENA, INTEROP, EIF, ISO, etc.)
- Information/Data Interoperability through use of ontologies/shared information models
- Service interoperability through use of the SAWSDL architecture (W3C) for semantic annotation of WSDL and XML Schema
- *Introduce this into an I-VLAB “learning/teaching” program, with reference to practical examples.*

## MDI and SOA – Research challenges

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- Powerful transformation and mediation language(s) for interoperability mappings (Candidates: QVT, ATL, MOFScript, Jena2, Logic languages (WSMO/WSML), .others/new ?)
- Support for Semantic interoperability for service and process semantics – grounded on data/information semantics – extending from SAWSDL etc.
- Analysis of Semantic proximity: What is possible, what is impossible ? (Ref. NP complete)
- (Semi-) Automatic detection of semantic matches and mismatches – Use of ontology federation tools
- Effective tool support for user-assisted decisions on matches and mismatches

## Short/mid term actions

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- Launch call for members (DONE)
- Open a workspace in the portal for the TaskForce (DONE)
- Distribute the workplan (DONE)
- WhitePaper describing the TF, motivations, aims, objectives, members
- Ask all memembrs of TF for Question they could have on MDI SOA

## Open questions

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- How to use ontology with MDI ?
- In MDI we have horizontal and vertical relation
  - Which tools for the modeling ?
- Which tool and language for transformation ? (H+V)
  - PIM-PSM.
  - CIM-PIM (focus for the work)
- Which language for CIM (business) ?
  - Put it available at the hands of users
- How to use SOAML ?

## Action list

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- Task force setup in April 2008
- **Actions for next TF meeting:**
  - Establishment of objectives of task force
  - Launch reinforced call for ACTIVE members
    - Communities
    - Contacts
  - Short/mid term actions